

CLAIMS

1. A page data receiving method comprising:

the first step of transmitting a first request signal for requesting first page data;

the second step of transmitting a second request signal for requesting second page data;

the third step of receiving said first page data, after the reception of notification page data indicating predetermined notification information according to said first request signal; and

the fourth step of receiving said second page data, after the reception of said notification page data according to said second request signal.

2. The page data receiving method according to claim 1, wherein:

the fifth step, when said second request signal transmitted in said second step is rejected by a second page data providing apparatus that provides said second page data, of requesting a first page data providing apparatus that provides said first page data to transmit information necessary for acceptance that is necessary for making said second page data providing apparatus accept said second request signal, and

the sixth step of receiving said information necessary for acceptance transmitted from said first page data providing

apparatus and address information about said notification page data, according to said request

are included; and

in said fourth step,

said notification page data is received by accessing said first page data providing apparatus based on said received address information about said notification page data,

a notification page indicating said notification information is displayed in the display section, based on said received notification page data, and

said second page data is received from said second page data providing apparatus by transmitting again said second request signal together with said information necessary for acceptance, according to an operation to said notification page displayed in said display section.

3. The page data receiving method according to claim 2, wherein;

when in accessing said first page data providing apparatus based on said address information about the notification page data, address information corresponding to said second page data is transmitted to the above first page data providing apparatus, so that said notification page data including address information corresponding to said second page data is received from said first page data providing apparatus.

4. The page data receiving method according to claim 2,
wherein;

when in accessing said first page data providing apparatus based on said address information about the notification page data, service identification information to identify said second page data is transmitted to the above first page data providing apparatus, so that said notification page data including additional information corresponding to said service identification information is received from said first page data providing apparatus.

5. The page data receiving method according to claim 1,
wherein;

in said notification page data, also the status of service corresponding to said second page data is indicated.

6. The page data receiving method according to claim 1,
wherein;

in said first page data, also link information to said second page data is included.

7. The page data receiving method according to claim 1,
wherein:

the fifth step, when said second request signal transmitted in said second step is rejected by a second page data providing apparatus that provides said second page data, of requesting a first page data providing apparatus that provides said first page data to transmit information necessary for acceptance that is necessary for making said second page data providing apparatus accept said second request signal,

the sixth step, when said request is rejected by said first page data providing apparatus, of transmitting user identification information and a password to the above first page data providing apparatus, and

the seventh step of receiving an authentication session ID transmitted from the first page data providing apparatus and address information about said notification page data, which are obtained by that said first page data providing apparatus authenticates said user identification information and password, are included; and

in said fourth step,

said notification page data is received by accessing said first page data providing apparatus by adding said authentication session ID, based on said received address information about said notification page data,

a notification page indicating said notification information is displayed in the display section, based on said received notification page data,

a signal for requesting said information necessary for acceptance is transmitted again to said first page data providing apparatus,

said information necessary for acceptance transmitted by said first page data providing apparatus according to said request is received, and

said second page data is received from said second page data providing apparatus by that said second request signal is transmitted again together with said information necessary for acceptance.

8. The page data receiving method according to claim 7, wherein;

when in accessing said first page data providing apparatus based on the address information about said notification page data, address information corresponding to said second page data is transmitted to the above first page data providing apparatus, so that said notification page data including the address information corresponding to said second page data is received from said first page data providing apparatus.

9. The page data receiving method according to claim 7, wherein;

when in accessing said first page data providing apparatus based on the address information about said notification page

data, service identification information to identify said second page data is transmitted to the above first page data providing apparatus, so that said notification page data including additional information corresponding to said service identification information is received from said first page data providing apparatus.

10. The page data receiving method according to claim 7, wherein;

in said notification page data, also the status of service corresponding to said second page data is indicated.

11. The page data receiving method according to claim 7, wherein;

in said first page data, also link information to said second page data is included.

12. A page data providing method for a page data providing apparatus storing notification page data indicating predetermined notification information and first page data, comprising:

the first step, if the apparatus receives a first request signal that requests said first page data from a terminal unit, of transmitting said notification page data to said terminal unit before transmitting said first page data; and

the second step, if said terminal unit transmits a second request signal for requesting second page data transmit to another page data providing apparatus that provides said second page data, of transmitting said notification page data to said terminal unit before said second page data is transmitted from said other page data providing apparatus according to said second request signal.

13. The page data providing method according to claim 12, wherein;

in said second step,

after said second request signal from said terminal unit was rejected by said other page data providing apparatus, if information necessary for acceptance that is necessary for making the above other page data providing apparatus accept said second request signal is requested from said terminal unit, said information necessary for acceptance and address information about said notification page data is transmitted to said terminal unit, and

if there is access from said terminal unit that received said information necessary for acceptance and the address information about said notification page data based on the above address information, said notification page data is transmitted to said terminal unit, so that a notification page based on said notification page data is displayed in the display section of said terminal unit.

14. The page data providing method according to claim 13, wherein;

if there is access from said terminal unit based on the address information about said notification page data, if address information corresponding to said second page data is received from said terminal unit, said notification page data including the address information corresponding to the above second page data is transmitted to said terminal unit.

15. The page data providing method according to claim 13, wherein;

if there is access from said terminal unit based on the address information about said notification page data, if service identification information to identify said second page data is received from said terminal unit, said notification page data including additional information that corresponds to the above service identification information is transmitted to said terminal unit.

16. The page data providing method according to claim 12, wherein;

in said notification page data, also the status of service corresponding to said second page data is indicated.

17. The page data providing method according to claim 12, wherein;

in said first page data, also link information to said second page data is included.

18. The page data providing method according to claim 12, wherein;

in said second step,

after said second request signal from said terminal unit was rejected by said other page data providing apparatus, a signal that requests information necessary for acceptance necessary for making the above other page data providing apparatus accept said second request signal is received together with an authentication session ID,

when the validity period of said authentication session ID has been expired, an authentication response indicating an authentication error is transmitted to said terminal unit,

user identification information and a password are received from said terminal unit,

authentication processing is performed based on said user identification information and password, an authentication session ID is issued, and if there is said notification page data, the authentication session ID is transmitted to said terminal unit together with address information about the above notification page, and

authentication processing is performed by said authentication session ID in response to access to the address of said notification page data to which said authentication session ID has been added, and if the authentication is allowed, the above notification page data is transmitted to said terminal unit.

19. The page data providing method according to claim 18, wherein;

when there has been accessed from said terminal unit based on the address information about said notification page data, if address information corresponding to said second page data is received from said terminal unit, said notification page data including the address information corresponding to the above second page data is transmitted to said terminal unit.

20. The page data providing method according to claim 18, wherein;

when there has been accessed from said terminal unit based on the address information about said notification page data, if service identification information to identify said second page data is received from said terminal unit, said notification page data including additional information that corresponds to the above service identification information is transmitted to said terminal unit.

21. The page data providing method according to claim 18, wherein;

in said notification page data, also the status of service corresponding to said second page data is indicated.

22. The page data providing method according to claim 18, wherein;

in said first page data, also link information to said second page data is included.

23. A terminal unit comprising:

transmitting means for transmitting a first request signal for requesting first page data and a second request signal for requesting second page data; and

receiving means, after receiving notification page data in which predetermined notification information is indicated, for receiving said first page data according to said first request signal, and after receiving said notification page data, for receiving said second page data according to said second request signal.

24. The terminal unit according to claim 23, wherein:

said transmitting means,

if said second request signal transmitted by said transmitting means is rejected by a second page data providing apparatus that

provides said second page data, transmits a request signal for requesting a first page data providing apparatus that provides said first page data to transmit information necessary for acceptance that is necessary for making said second page data providing apparatus accept said second request signal;

said receiving means,

receives said information necessary for acceptance transmitted from said first page data providing apparatus according to said request, and address information about said notification page data,

receives said notification page data by accessing said first page data providing apparatus, based on said received address information about said notification page data, and

transmits said notification page in which notification information is indicated to a display section, based on said received notification page data; and

said transmitting means,

transmits again said second request signal together with said information necessary for acceptance, according to an operation to said notification page displayed in said display section; and

said receiving means,

receives said second page data from said second page data providing apparatus in response to said retransmission.

25. The terminal unit according to claim 24, wherein;

said receiving means,

when in accessing said first page data providing apparatus based on the address information about said notification page data, transmits address information that corresponds to said second page data to the above first page data providing apparatus, so as to receive said notification page data including the address information corresponding to said second page data from said first page data providing apparatus.

26. The terminal unit according to claim 24, wherein;

said receiving means,

when in accessing said first page data providing apparatus based on the address information about said notification page data, transmits service identification information to identify said second page data to the above first page data providing apparatus, so as to receive said notification page data including additional information that corresponds to said service identification information from said first page data providing apparatus.

27. The terminal unit according to claim 23, wherein:

said transmitting means,

if said second request signal transmitted by said transmitting means is rejected by a second page data providing apparatus that provides said second page data, transmits a request

signal for requesting a first page data providing apparatus that provides said first page data to transmit information necessary for acceptance that is necessary for making said second page data providing apparatus accept said second request signal, and

further, if said request is rejected by said first page data providing apparatus, transmits user identification information and a password to the above first page data providing apparatus;

said receiving means,

receives an authentication session ID transmitted from the above first page data providing apparatus as a result of that said first page data providing apparatus authenticates said user identification information and password, and the address information about said notification page data,

receives said notification page data by accessing said first page data providing apparatus by adding said authentication session ID based on said received address information about said notification page data, and

transmits a notification page in which said notification information is indicated to a display section, based on said received notification page data;

said transmitting means,

transmits again said signal for requesting information necessary for acceptance to said first page data providing apparatus;

said receiving means,

receives said information necessary for acceptance transmitted by said first page data providing apparatus, according to said request;

said transmitting means,

transmits again said second request signal together with said information necessary for acceptance; and

said receiving means,

receives said second page data from said second page data providing apparatus, according to said retransmission.

28. The terminal unit according to claim 27, wherein;

said receiving means,

when in accessing said first page data providing apparatus based on the address information about said notification page data, transmits address information that corresponds to said second page data to the above first page data providing apparatus, so as to receive said notification page data including the address information corresponding to said second page data from said first page data providing apparatus.

29. The terminal unit according to claim 27, wherein;

when in accessing said first page data providing apparatus based on the address information about said notification page data, service identification information to identify said second page data is transmitted to the above first page data providing

apparatus, so that said notification page data including additional information that corresponds to said service identification information is received from said first page data providing apparatus.

30. A page data providing apparatus storing notification page data indicating predetermined notification information and first page data, comprising:

receiving means for receiving a first request signal for requesting said first page data from a terminal unit; and

transmitting means,

for transmitting said notification page data to said terminal unit, before transmitting said first page data according to said first request signal received by said receiving means, and

if said terminal unit transmits a second request signal for requesting second page data to another page data providing apparatus that provides said second page data, for transmitting said notification page data to said terminal unit, before said second page data is transmitted from said other page data providing apparatus according to said second request signal.

31. The page data providing apparatus according to claim 30, wherein:

said transmitting means,

after said second request signal from said terminal unit was rejected by said other page data providing apparatus, if information necessary for acceptance that is necessary for making the above other page data providing apparatus accept said second request signal is requested from said terminal unit, transmits said information necessary for acceptance and address information about said notification page data to said terminal unit; and

if said receiving means is accessed from said terminal unit that received said information necessary for acceptance and the address information about said notification page data based on the above address information, said transmitting means transmits said notification page data to said terminal unit, so that a notification page based on said notification page data is displayed in the display section of said terminal unit.

32. The page data providing apparatus according to claim 31, wherein;

when said receiving means has been accessed from said terminal unit based on the address information about said notification page data, if said receiving means receives address information corresponding to said second page data from said terminal unit,

said transmitting means,

transmits said notification page data including the address information corresponding to the above second page data to said terminal unit.

33. The page data providing apparatus according to claim 31, wherein;

when said receiving means has been accessed from said terminal unit based on the address information about said notification page data, if said receiving means receives service identification information for identifying said second page data from said terminal unit,

said transmitting means,

transmits said notification page data including additional information that corresponds to the above service identification information to said terminal unit.

34. The page data providing apparatus according to claim 30, wherein;

in said notification page data, also the status of service corresponding to said second page data is indicated.

35. The page data providing apparatus according to claim 30, wherein;

in said first page data, also link information to said second page data is included.

36. The page data providing apparatus according to claim 30, wherein:

said receiving means,

after said second request signal from said terminal unit was rejected by said other page data providing apparatus, receives a signal for requesting information necessary for acceptance that is necessary for making the above other page data providing apparatus accept said second request signal together with an authentication session ID;

said transmitting means,

when the validity period of said authentication session ID has expired, transmits an authentication response indicating the authentication error to said terminal unit;

said receiving means,

receives user identification information and a password from said terminal unit; and

said transmitting means,

performs authentication processing based on said user identification information and password, issues an authentication session ID, and if there is said notification page data, transmits said notification page data to said terminal unit together with address information about the above notification page data, performs authentication processing by said authentication session ID according to access to the address of said notification page

data to which said authentication session ID has been added, and if the authentication is allowed, transmits the above notification page data to said terminal unit.

37. The page data providing apparatus according to claim 36, wherein;

when said receiving means has been accessed from said terminal unit based on the address information about said notification page data, if said receiving means receives address information corresponding to said second page data from said terminal unit,

said transmitting means,

transmits said notification page data including the address information corresponding to the above second page data to said terminal unit.

38. The page data providing apparatus according to claim 36, wherein;

when said receiving means has been accessed from said terminal unit based on the address information about said notification page data, if said receiving means receives service identification information for identifying said second page data from said terminal unit,

said transmitting means transmits said notification page data including additional information that corresponds to the above service identification information to said terminal unit.

39. The page data providing apparatus according to claim 36, wherein;

in said notification page data, also the status of service corresponding to said second page data is indicated.

40. The page data providing apparatus according to claim 36, wherein;

in said first page data, also link information to said second page data is included.

41. A page data receiving program for making a terminal unit execute:

the first step of transmitting a first request signal for requesting first page data;

the second step of transmitting a second request signal for requesting second page data;

the third step, after receiving notification page data in which predetermined notification information is indicated according to said first request signal, of receiving said first page data; and

the fourth step, after receiving said notification page data according to said second request signal, of receiving said second page data.